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**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**  
**Division of Oil, Gas & Mining**

MICHAEL R. STYLER  
Executive Director

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**Inspection Report**  
**Minerals Regulatory Program**  
Report Date: December 20, 2006

Supervisor DDZ

**Mine Name:** Reef  
**Operator Name:** Castle Valley Stone

**Permit number:** S0150094  
**Inspection Date:** December 15, 2006  
**Time:** 10:50-11:10 AM

**Inspector(s):** Paul Baker  
**Other Participants:** None  
**Mine Status:** Reclaimed

**Weather:** Cloudy, 30s

Elements of Inspection	Evaluated	Comment	Enforcement
1. Permits, Revisions, Transfer, Bonds	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Public Safety (shafts, adits, trash, signs, highwalls)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Protection of Drainages / Erosion Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Deleterious Material	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Roads (maintenance, surfacing, dust control, safety)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Concurrent Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Water Impoundments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Soils	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Revegetation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Air Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Purpose of Inspection:**  
The operator requested partial release.

**Inspection Summary:**

1. Permits, Revisions, Transfer, Bonds

The Division notified the operator that the notice was complete and approved the surety on August 28, 2006.

The Division received a request for partial release of the entire site on December 4, 2006.

7. Backfilling/Grading (trenches, pits, roads, highwalls, shafts, drill holes)

The site has been basically regraded, but there is a little more work that should be done to complete the job. Surrounding areas are flat, but the mine site was left with small rises or banks (Photos 1, 2, and 3). These are not significant but could be smoothed.

As can be seen in Photo 4, some waste was pushed over the edge of the cliff.

10. Revegetation

It did not look like the site had been seeded, but I could be mistaken.

12. Other

There are still about 50 pallets of stone on the site.

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All the equipment, including the trailers, has been removed.

**Conclusions and Recommendations:**

If this site is being permanently closed, the operator should remove the stone, complete the grading, and seed (if seeding has not already been done). If the site is not being permanently closed, the operator should still apply an interim seed mix.

Prior to seeding, the soil needs to be broken up by ripping or gouging, and the seed should be applied immediately after. A permanent seed mix should include Indian ricegrass, fourwing saltbush, and probably some aggressive introduced grasses, such as crested wheatgrass and Russian wild rye. Grasses in adjacent areas are mostly warm season species which are normally difficult to establish in reclaimed areas.

At this point, there is not much that can be done about the waste that was pushed over the hill. Any attempt to retrieve the material would only be partly successful, and it would create a lot of additional disturbance and erosion potential.

The Division needs to retain enough money in the surety to remove the pallets of stone, complete some minor grading, and for revegetation. Revegetation includes breaking up the surface by ripping or gouging. The cost for additional grading could probably be included in the cost for ripping.

Inspector's Signature RLB Date: 12/28/06

PBB:pb

cc: Tracy Burnham, Castle Valley Stone  
John Blake, SITLA

Attachment: Photos



## ATTACHMENT

### Photographs

S0150094, Reef Mine, Castle Valley Stone

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Photo 1. The site has been basically graded, but I felt the transition between the waste and the areas with little waste could be smoothed out.



Photo 2. Here, again, I felt the waste could be better smoothed out.

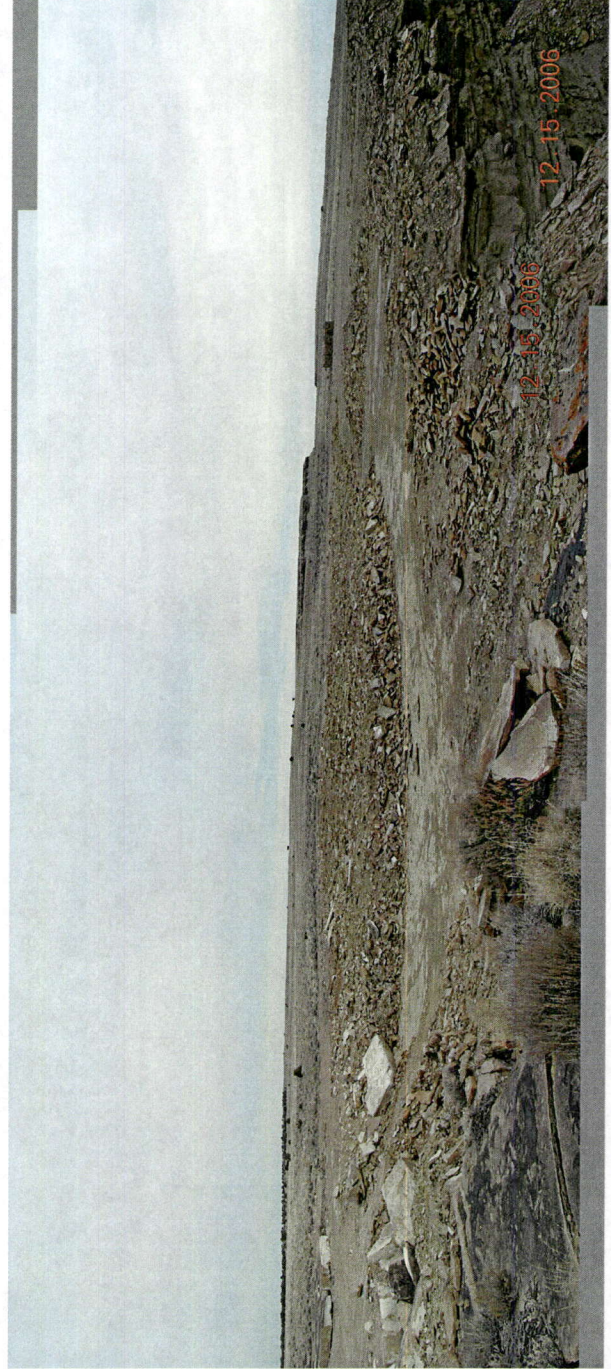


Photo 3. Panorama of the mine site.



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Photo 4. Panorama showing how waste material was pushed over the edge of the cliff.